(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



) MATER AND FIRE IN COLUMN COLUMN

(43) International Publication Date 7 April 2005 (07.04.2005)

PCT

(10) International Publication Number WO 2005/030676 A1

- (51) International Patent Classification⁷: C07B 59/00, C07D 279/20, A61K 31/5415, A61P 35/00
- (21) International Application Number:

PCT/GB2004/004153

(22) International Filing Date:

27 September 2004 (27.09.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0322756.8

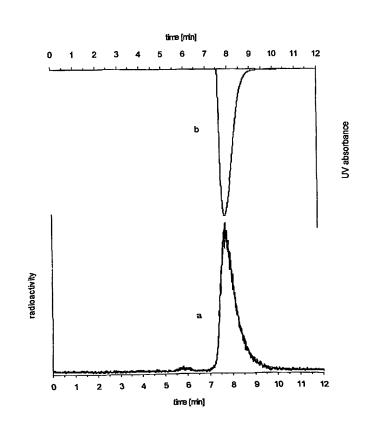
29 September 2003 (29.09.2003) GB

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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

[Continued on next page]

(54) Title: METHODS OF [11C]-RADIOLABELLING PHENOTHIAZINE AND PHENOTHIAZINE-LIKE COMPOUNDS



This invention pertains to (57) Abstract: methods of [11C]-radiolabelling "phenothiazine" and "phenothiazine-like" compounds, which have a pendant group (which is a primary amino group; a cationic primary imino group; a secondary amino group; a cationic secondary imino group; a primary imino group; or a secondary imino group), by reaction with [11C]methyl trifluoromethanesulfonate (CF₃SO₂O¹¹CH₃), also known as [11C]methyl triflate. This reaction converts the pendant group into a [11C]methyl-labelled pendant group. resulting [11C]-radiolabelling product is useful, for example, as an in vivo positron emission tomography (PET) tracer, for example, for patients suffering from melanoma, the most serious form of skin cancer, and tauopathy (e.g., The present invention Alzheimer's disease). also pertains to the resulting [11C]-radiolabelling products, compositions comprising them, their use in methods of (e.g., PET) imaging, their use in methods of medical treatment and diagnosis, etc.

WO 2005/030676 A1

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

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